

### Digital Information (Part 2) Work Sheet: 04-PS-15-WS



#### Introduction:

3.

#### Questions: (\* questions can be used for evaluation)

- 1. Information can be digital or non-digital. Which of the following is digital information?
  - a. Sound of Waterfall on the Western Ghats during Monsoons
  - b. Sound of Waterfall played on TV / Cell-phone
  - c. Your mother's voice asking you to come to kitchen and have your meal.
  - d. Your mother's voice on the phone "Hello, where are you? Come back home straight after your tuition classes, don't start playing in the playground."

2. Give 2 examples of digital sounds in your classroom and 2 examples of real life

e. Video game on your playstation / cell phone

	ds that you can hear in your classroom.
	ge the following information types in the increasing order of number of 0s s required to convert the information into digital representation, from lowest hest:  SMS
•	A video clip of 1 minute showing you winning a school prize in sports activity
•	A picture of your pet taken with a professional high definition digital camera
•	3D Animation movie (30 minutes)
•	A text message from your father
•	5 pictures taken using a cell-phone camera



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- 4. Which of the following statements are true? If it is false, correct the statement and rewrite it.
- Encoding refers to the process of applying rules to a set of 0s and 1s to convert it back into human readable information.
- Encoding is the reverse process of decoding.
- We need to use same rule to encode any information whether it is text or image or sound.
- We need to use the same rule to encode and to decode a piece of information.
- RGB is used to encode textual information.

Video can be encoded using any of these rules - VHS, JPEG,DVD, HD, MPEG,GIF

- 5. Refer to the picture below it shows three color lights (Red, Green and Blue) thrown on a white wall. Can you identify when different color lights are mixed? Tick the correct statements and cross the incorrect ones below:
  - Red + Green = White
  - Red + Blue = Magenta
  - Blue + Green = Cyan
  - Red+ Blue+ Green = White
  - Red + Blue + Green = Black



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Ο.	computer and or cell phone screen. Observe the picture quality carefully. When you visit your friends place next, check out their TV / computer / cell phone
	picture quality. Notice if there is any difference in picture quality. If there is, find out how many pixel the device has - does it have less pixels or more than your
	home TV?

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